





United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

•						
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO. 823.0093USU 8902			
09/877,695	06/08/2001	John R. Desjarlais				
7	590 08/13/2003			,		
Paul D. Greeley, Esq.			EXAMINER			
Ohlandt, Greeley, Ruggiero & Perle, L.L.P. One Landmark Square, 10th Floor			MORAN, MARJORIE A			
Stamford, CT 06901-2682			ART UNIT	PAPER NUMBER		
			1631			

DATE MAILED: 08/13/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

		·				
		Application No		Applicant(s)		
	•	09/877,695		DESJARLAIS, JOHN R	JARLAIS, JOHN R.	
Office Action Summary		Examin r		Art Unit		
		Marjorie A. Mora	in	1631		
Period fo	Th MAILING DATE of this communication apor Reply	pears on the cove	r sheet with the c	orresp ndence address	; 	
THE I - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. Insigns of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statuted patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, how ply within the statutory mid will apply and will expire the, cause the application.	rever, may a reply be tin nimum of thirty (30) day SIX (6) MONTHS from to become ABANDONE	nely filed s will be considered timely. the mailing date of this communi D (35 U.S.C. § 133).	cation.	
1)🖂	Responsive to communication(s) filed on 08	June 2001 .				
2a) <u></u> □	This action is FINAL . 2b) T	his action is non-f	inal.			
3)	closed in accordance with the practice unde	•	-		rits is	
· · ·	on of Claims					
•	Claim(s) <u>1-37</u> is/are pending in the application		ration			
	4a) Of the above claim(s) is/are withdra	awn nom conside	alion.			
·	Claim(s) is/are allowed.					
	Claim(s) is/are rejected.					
	Claim(s) is/are objected to. Claim(s) 1-37 are subject to restriction and/or	r election requirer	nent			
, —	on Papers	election requirem	iciit.		•	
··	The specification is objected to by the Examin	er.			•	
, —-	The drawing(s) filed on is/are: a)□ acco		ted to by the Exa	miner.		
•	Applicant may not request that any objection to t					
11) 🔲 -	The proposed drawing correction filed on	is: a)∏ approv	ed b)∐ disappro	oved by the Examiner.		
	If approved, corrected drawings are required in re	eply to this Office a	ction.			
12) 🔲 -	The oath or declaration is objected to by the E	xaminer.				
Priority u	ınder 35 U.S.C. §§ 119 and 120					
13)	Acknowledgment is made of a claim for foreign	gn priority under 3	5 U.S.C. § 119(a	n)-(d) or (f).		
a)[☐ All b)☐ Some * c)☐ None of:					
	1. Certified copies of the priority documen	nts have been rec	eived.			
	2. Certified copies of the priority documen	nts have been rec	eived in Applicati	on No		
* S	3. Copies of the certified copies of the pricapplication from the International Bee the attached detailed Office action for a lis	Sureau (PCT Rule	17.2(a)).		€	
14) 🗀 A	cknowledgment is made of a claim for domes	tic priority under	35 U.S.C. § 119(e) (to a provisional appl	ication).	
) The translation of the foreign language practice. The translation of the foreign language practice. The translation is made of a claim for domestic.			•		
Attachmen	_					
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	4) 5) <u></u>	•	y (PTO-413) Paper No(s) Patent Application (PTO-152) omply .		
0.0-444						

Art Unit: 1631

El ction/R strictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-29, drawn to methods of generating a probability matrix of protein structures, classified in class 702, subclass 27.
- II. Claims 30-37, drawn to methods to optimize simulation or scoring function parameters, classified in class 703, subclass 2.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions the methods are directed to different results and recite different method steps requiring different searches.

These inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, therefore restriction for examination purposes as indicated is proper. In addition, because these inventions are distinct for the reasons given above and the search required for either Group is not required for the other Group as set forth above, restriction for examination purposes as indicated is proper.

This application contains claims directed to the following patentably distinct species of the claimed invention as set forth below.

Specie A: applicant must elect ONE of the optimization procedures recited in any of claims 5, 13;

Specie B: applicant must elect a protein backbone structure taken from a (single) protein; e.g. as recited in claims 6, 20, and 28 OR a protein backbone structure comprising an

Art Unit: 1631

ensemble of protein backbone structures; e.g. as recited in claims 9 and 21. If an ensemble is elected, then applicant must further elect ONE of the generation "simulations" recited in claims 16, 17, 22, and 23.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species from Specie A *and* from Specie B for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1-4, 7-8, 19, 24-27, and 29 are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Art Unit: 1631

Ŋ

Sequence Rules

This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 CFR 1.821(a)(1) and (a)(2). However, this application fails to comply with the requirements of 37 CFR 1.821 through 1.825 for the reason(s) set forth below or on the attached Notice To Comply With Requirements For Patent Applications Containing Nucleotide Sequence And/Or Amino Acid Sequence Disclosures. Figure 8 contains sequences subject to the Sequence Rules (unbranched chain of 4 or more amino acids). Applicant is advised that ALL sequences disclosed in an application are subject to the Sequence Rules. As set forth in MPEP 2421.02:

"The rules apply to all sequences in a given application, whether claimed or not. All such sequences are relevant for the purposes of building a comprehensive database and properly assessing prior art. It is therefore essential that all sequences, whether only disclosed or also claimed, be included in the database.

Applicant is given ONE MONTH, or THIRTY DAYS, whichever is longer, from the mailing date of this letter within which to comply with the sequence rules, 37 CFR 1.821 - 1.825. This time period will run concurrently with the time period for response to the restriction/election requirement set forth above. Any reply to the restriction/election requirement received before the Sequence Rules have been complied with will be considered nonresponsive. Failure to comply with these requirements will result in ABANDONMENT of the application under 37 CFR 1.821(g). Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a). In no case may an applicant extend the period for reply beyond the SIX MONTH statutory period. Direct the reply to the undersigned. Applicant is requested to return a copy of the attached Notice to Comply with the reply.

Art Unit: 1631

Conclusion

Claims 1-37 are restricted and are subject to an election requirement. Sequence Rules must be complied with.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marjorie A. Moran whose telephone number is (703) 305-2363. The examiner can normally be reached on Monday to Friday, 7:30 am to 4 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Woodward can be reached on (703) 308-4028. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-4242 for regular communications and (703) 872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3524.

MARJORIE MORAN PATENT EXAMINER

mam August 12, 2003 in A M

Application No.: 09/877,695

NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

	1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.
	2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
	3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
	4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."
	5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
	6. The paper copy of the "Sequence Listing" is not the same as the computer readable from of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
	7. Other:
_	A .
Ap	plicant Must Provide:
	An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
Ø	An <u>initial</u> or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
Ø	A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).
For	questions regarding compliance to these requirements, please contact:
	Rules Interpretation, call (703) 308-4216
For	CRF Submission Help, call (703) 308-4212
For	Patentin software help, call (703) 308-6856

PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR RESPONSE